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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/761,216 01/22/2004		01/22/2004	Kuen-Huei Chang	06484.220 2753	
22852	7590	09/29/2006		EXAMINER	
	N, HEND	DERSON, FARABO	TRA, ANH QUAN		
LLP 901 NEW	YORK AV	ENUE, NW	ART UNIT	PAPER NUMBER	
		20001-4413	2816	<u> </u>	

DATE MAILED: 09/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/761,216	CHANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Quan Tra	2816				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim  iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 Au	iaust 2006.					
	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E						
Disposition of Claims						
4)⊠ Claim(s) <u>2,4 and 8-11</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>2, 4, 8-11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	- · · ·	• •				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		7,68,67,61,77,7,6,7,62.				
<u> </u>	nriority under 25 U.S.C. \$ 110(a)	(d) or (f)				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>						
Copies of the certified copies of the priori application from the International Bureau	ity documents have been receive					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	,					
Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

## **DETAILED ACTION**

This office action is in response to the amendment filed 8/18/06. A new ground of rejection is introduced as necessitated by amendment.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 2, 4 and 8-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Mar et al. (USP 6191660, previously cited).

As to claim 8, Mar et al.'s figures 5 and 6 shows a circuit for providing a refresh cycle for a memory device, comprising: a first current generator (IPTAT in figure 6) providing a first current in response to a constant voltage (supply voltage Vcc); a voltage generator ((192, 194, 196, 198, 200) providing a temperature dependent voltage; a second current generator (190) providing a second current in response to the temperature dependent voltage; and a frequency generator (figure 5) providing a frequency in response to the sum of the first and second currents, the frequency generator comprising a capacitor (C1) having a terminal to receive the summed first and second currents and a comparator (154) to compare a voltage at the terminal of the capacitor to a reference and generate an output signal that the voltage, at the terminal of the capacitor exceeds the reference voltage.

As to claim 2, figure 6 shows that the voltage generator includes a resistor (198) having a temperature dependent resistance.

As to claim 4, figure 6 shows that the temperature dependent resistance of the resistor increases as the temperature increases, and decreases as the temperature decreases.

As to claim 9, figure 6 shows that the voltage generator includes a current source (192), a resistor having a temperature dependent resistance, and an output terminal coupled between the current source and the resistor.

As to claim 10, figure 6 shows that the second current generator includes a transistor having a gate coupled to the output terminal.

As to claim 11, figure 6 shows that the second current is turned off at a predetermined temperature (any is value may be considered as "predetermined").

## Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quan Tra whose telephone number is 571-272-1755. The examiner can normally be reached on 8:00 AM - 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

QUAN TRA
PRIMARY EXAMINER
Art Unit 2816